

数式テスト

$\nexists n \forall x, y, z ((n, x, y, z \in \mathbb{N}) \wedge (x^n + y^n = z^n) \wedge (n \geq 3))$

1. 自然演繹

$$\frac{A \rightarrow B \quad A}{B} (\rightarrow E)$$

$$\frac{A}{B \vee A} (\vee I) \quad \frac{B}{B \vee A} (\vee I)$$

$$\frac{\begin{matrix} \frac{}{A \vee B} \\ \frac{[A]^1}{B \vee A} (\vee I) \end{matrix}}{B \vee A} (\vee E, 1)$$

$$\frac{\begin{matrix} \frac{}{A \vee (B \vee C)} \\ \frac{[A]^2}{A \vee B} (\vee I) \end{matrix}}{A \vee B} (\vee E) \quad \frac{\begin{matrix} \frac{}{B \vee C} \\ \frac{[B]^1}{B \vee A} (\vee I) \end{matrix}}{B \vee A} (\vee E, 1) \quad \frac{\begin{matrix} \frac{}{A \vee B} \\ \frac{[A]^1}{B \vee A} (\vee I) \end{matrix}}{B \vee A} (\vee E, 1)$$

$$\frac{\begin{matrix} \frac{}{A \vee B} \\ \frac{\frac{}{A \vee B} \quad \frac{}{A \vee B}}{A \vee B} (\vee I) \end{matrix}}{A \vee B} (\vee E)$$

$$\begin{matrix} X & P(X=i) \\ 1 & 1/6 \\ 2 & 1/6 \\ 3 & 1/6 \\ 4 & 1/6 \\ 5 & 1/6 \\ 6 & 1/6 \end{matrix}$$

$$\frac{\frac{}{A \vee (B \vee C)}}{\frac{[A]^2}{A \vee B} (\vee I)} (\vee E) \quad \frac{\frac{}{B \vee C}}{\frac{[B]^1}{B \vee A} (\vee I)} (\vee E) \quad \frac{\frac{}{A \vee B} \quad \frac{}{B \vee A}}{A \vee B} (\vee I)$$

$$\frac{\frac{}{A \vee (B \vee C)}}{\frac{[A]^2}{A \vee B} (\vee I)} (\vee E) \quad \frac{\frac{}{B \vee C}}{\frac{[B]^1}{B \vee A} (\vee I)} (\vee E) \quad \frac{\frac{}{A \vee B} \quad \frac{}{B \vee A}}{A \vee B} (\vee I)$$

$$\frac{\frac{A \rightarrow B}{B} \vee \frac{A \rightarrow C}{C}}{(A \rightarrow B) \vee (A \rightarrow C)} \rightarrow (A \rightarrow (B \wedge C))$$
$$\vdash ((A \rightarrow B) \rightarrow A) \rightarrow A$$
[illegible]
$$\begin{matrix} \text{\$} \text{\$} \begin{matrix} \text{\textit{x}} \text{\textit{y}} \end{matrix} \text{\$} \text{\$} \text{\textit{matrix}} \{ \text{\textit{U}} \text{\textit{var}} @ / _ / [\text{\textit{ddr}}] \text{\textit{y}} \text{\textit{var}} @ \{ . > \} [\text{\textit{dr}}] | \{ \text{\textit{Y}} \text{\textit{angle}} \text{\textit{x}} , \text{\textit{y}} \text{\textit{r}} \text{\textit{angle}} \} \\ \text{\textit{var}} @ / \wedge [\text{\textit{drr}}] ^ \text{\textit{x}} \text{\textit{Y}} \text{\textit{Y}} \& \text{\textit{X}} \text{\textit{Y}} \text{\textit{times}} _ \text{\textit{Z}} \text{\textit{Y}} \text{\textit{var}} [\text{\textit{d}}] ^ \text{\textit{q}} \text{\textit{var}} [\text{\textit{r}}] _ \text{\textit{p}} \& \text{\textit{X}} \text{\textit{var}} [\text{\textit{d}}] _ \text{\textit{Y}} \text{\textit{Y}} \& \text{\textit{Y}} \text{\textit{var}} [\text{\textit{r}}] ^ \text{\textit{g}} \& \\ \text{\textit{Z}} \} \end{matrix} \text{\$} \text{\$} \end{matrix}$$

$\$ \$ \text{Xymatrix} \left\{ \begin{array}{l} A \varphi @{-}[d] \varphi @{-}[dr] & \& \forall NP \varphi @{-}[d] & VP \varphi @{-}[d] \\ \varphi @{-}[dr] & \& \forall pron \varphi @{-}[d] & verb \varphi @{-}[d] & NP \varphi @{-}[d] \varphi @{-}[dr] & \\ \forall \varphi @{-}[d] & \& \varphi @{-}[d] & det \varphi @{-}[d] & noun \varphi @{-}[d] & \forall Yrm\{I\} & \\ Yrm\{have\} & \& Yrm\{a\} & Yrm\{pen\} \end{array} \right\} \$ \$$